SAN JOSÉ STATE UNIVERSITY
EMPLOYMENT OPPORTUNITIES

San José State
U N I V E R S I T Y

HUMAN RESOURCES SERVICE GROUP

Employment Services ▪ One Washington Square ▪ San José, CA 95192-0046   408-924-2250 ▪ 408-924-2257 (fax)

Position Title: **NETWORK ANALYST, EXPERT**
Position Classification: **Network Analyst, Expert**
Reporting Unit: **University Computing and Telecommunications**
Requisition #: **011122**

Posting Period: **Repeat Position-Subject to Close At Anytime**

POSITION PURPOSE
Performs duties under general supervision, but works independently to engineer, support, and operate the campus data network.

ESSENTIAL DUTIES AND RESPONSIBILITIES include but are not limited to the following:
1. Maintains and supports daily network operations and needs.

2. Troubleshoots network and system problems, including LAN and WAN communications and security issues.

3. Engineers communications and networking solutions. Includes written plans and designs, communication, and design reviews.

4. Configures communications equipment.

5. Leads projects, provides leadership and direction to less senior members of the group, and serves as lead to groups of campus technical staff on campus-wide projects or security issues.

6. Engineers, plans, and evolves the campus network.

7. Establishes planning and engineering processes for the integrated campus network.

8. Makes presentations to staff, management, and campus groups.

9. Participates in planning for and implementation of security systems for the campus telecommunications infrastructure.

10. Supports the implementation and maintenance of voice communications over the IP network on the campus.

11. Serves as technical lead on projects with other network analysts, system administrators, consultants or others of equivalent seniority.

12. Serves as the campus expert in assigned subject areas related to networking.

13. Works with network management tools and manages network projects.

GENERAL GUIDELINES
1. Recommends initiatives and changes to improve quality and services.

2. Identifies and determines cause of problems; develops and presents recommendations for improvement of established processes and practices.

3. Maintains contact with customers and solicits feedback for improved services.

4. Maximizes productivity through use of appropriate tools; planned training and performance initiatives. Researches and develops resources that create timely and efficient workflow. Develops and recommends budget.
5. Prepares progress reports, informs supervisor of project status and deviation from goals. Ensures completeness, accuracy and timeliness of all operational functions.

6. Prepares and submits reports as requested and required.

7. Implements guidelines to support the functions of the unit.

WORK ENVIRONMENT

Works in office and computer room environments, sometimes around noise and strong air conditioning. Must be able to work outdoors and occasionally equipment closets, rooftops, equipment shelters, or other unusual places where communications equipment or cabling is used or maintained. Must be able to travel to all parts of the campus. Requires ability to configure switches, patch cables, manipulate and transport equipment, etc. Must be able to use a computer and use a keyboard and mouse for extended periods of times.

REQUIRED KNOWLEDGE, SKILLS, AND ABILITIES

To perform this job successfully, an individual must be able to perform each essential duty and responsibility satisfactorily. The requirements listed below are representative of the knowledge, skills, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

1. Thorough knowledge of methods, procedures and practices; English grammar, business writing, punctuation, and spelling.

2. Demonstrated network engineering, support, and troubleshooting skills and experience.

3. Excellent written, verbal, and interpersonal communication skills. Capable of writing proposals or papers, making presentations to customer, client, or professional peer audiences.

4. General knowledge of networking, including routers, switches, firewalls, protocols, etc.

5. User-level experience with UNIX-based operating systems.

6. Working knowledge of software applications: word processing, spreadsheets, database management.

7. Prior experience configuring and maintaining LDAP and directory services.

8. Experience installing/configuring DNS/BIND.

9. Programming background with experience in either scripts or programming languages.

10. Experience with Linux, Solaris, BSD, or other UNIX-based operating systems.

11. Experience with non-UNIX operating systems including Windows, Macintosh OS, and OS/390.

12. Programming experience with scripts or administrative languages such as Tk or awk and a compiled language, such as C, or C++.

13. Experience with network security (for example, building firewalls, deploying authentication systems, or applying cryptography to network applications).

14. Experience with host security (for example, passwords uids/gids, file permissions, file system integrity, use of security packages).

15. Experience at sites with over 1,000 computers, 100 routers, or over 1,000 users.

16. Experience developing/implementing a site disaster recovery plan.

17. Databases: experience using relational databases, experience using a database query language.

18. Experience programming in a database query language. Previous experience as a database administrator.

19. Installing and maintaining the network cabling.

20. Installing/configuring peripherals (for example, disks, modems, printers, or data acquisition devices).

21. Experience with board-level diagnosis and repair of computer systems.

22. A combination of education and experience equivalent to a Bachelor's degree in computer science, electrical engineering, computer engineering, or a related field and a minimum of five years hands-on experience managing enterprise networks. CCNA preferred. Individuals with an equivalent combination of training and experience will also be considered.

This position requires the ability to establish and maintain cooperative working relationships within a diverse multicultural environment.

NOTE   Prior to or on the first day of employment, the recommended applicant will be fingerprinted. A $12.00 cash fee will be paid by the applicant.

SALARY $5,595 - $8,983 per month (Hiring salary generally at the beginning of the range)

APPLICATION PROCEDURES
Submit a resume, supplemental questionnaire, and SJSU application for this position. Evidence of degree(s) or certification(s) required at time of hire.

The latest San Jose State University Safety 101 Uniform Campus Crime and Security Report is available. You may request a hardcopy of San Jose State University's annual safety report by contacting the University Police Department at (408) 924-2222 or visiting the website at http://www.sjsu.edu/safetyreport.

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SUPPLEMENTAL QUESTIONAIRE
Network Analyst, Expert (011122)

Candidate's Name:_____   Date_____

Please complete all sections on the table below. In the available columns, identify your level of demonstrated, verifiable experience in each area. Highlight special skills or experience under comments. Our definition of the levels of experience are:

Extensive = very experienced, have worked with the product or skill frequently, more than once a week.
Some = worked with product/skill before, but have not worked with if for a while or only worked with it Infrequently.
Little/No = familiar with what it is, but never used it or only used it in a very limited way.

Demonstrated Skill or Ability	Years of Experience	Extensive Experience	Some Experience	Little/No Experience	Name of Employer and person who could verify experience, Knowledge, and Skills	Comments
Configuring Cisco Switches						
Configuring Cisco Routers						
CiscoWorks						
Configuring Alcatel equipment						
X-vision						
Ability to identify and automate tasks using scripting languages (specify language(s))						
Programming (specify language(s))						
User knowledge of word processors, spreadsheets, and presentation software						
DBA (specify database)						
SQL programming experience						
Configuring and maintaining LDAP or directory services (specify)						
Installing/configuring DNS/Bind						

Windows OS					
Macintosh OS					
Linux OS					
UNIX OS					
Configuring firewalls (specify)					
IDS (specifiy)					
Troubleshooting network security breaches/problems					
Configuring host system local security software (specify)					
Installing network cabling					
Terminating fiber optic cabling					
Designing complex data networks					